



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

The Royal Society of London

# PHILOSOPHICAL TRANSACTIONS

Volume 26  
1708-1709

*Reprinted by permission of  
The Royal Society of London*

JOHNSON REPRINT  
CORPORATION

KRAUS REPRINT  
CORPORATION

NEW YORK  
1963

The Royal Society of London

# PHILOSOPHICAL TRANSACTIONS

Volume 26  
1708-1709

*Reprinted by permission of  
The Royal Society of London*

JOHNSON REPRINT  
CORPORATION

KRAUS REPRINT  
CORPORATION

NEW YORK

1963

*The only official reprint  
authorized by  
The Royal Society of London*

PHILOSOPHICAL  
TRANSACTIONS.

Giving some

ACCOUNT

OF THE

*Present Undertakings, Studies and Labours*

OF THE

INGENIOUS,

In many

Considerable Parts of the World.

---

VOL. XXVI. For the Years 1708 and 1709.

---

L O N D O N:

Printed for H. Clements, at the *Half-Moon* in St. Paul's  
Church-Yard. MDCCX.

Sir *Isaac Newton*, K<sup>t</sup>.  
P R E S I D E N T,

And to the

Council and Fellows

O F T H E

Royal Society  
O F

L O N D O N,

F O R T H E

Advancement of *Natural Knowledge*;

T H I S

Twenty Sixth V O L U M E

O F T H E

Philosophical Transactions

I S

HUMBLY DEDICATED

B Y

*Hans Sloane*, R. S. Secr.

# PHILOSOPHICAL TRANSACTIONS.

---

*For the Months of January and February, 1708.*

---

## The CONTENTS.

- I. Experimenta & Observationes de Soni Motu, aliisque ad id attinentibus, factæ à Reverendo D. W. Derham Ecclesiæ Upminsteriensis Rectore, & Societatis Regalis Londinensis Socio.
- II. *A Relation of the strange Effects of Thunder and Lightning, which happened at Mrs. Close's House at New-Forge, in the County of Down in Ireland, on the 9th of August, 1707. Communicated by Samuel Molyneux Esq; Secretary of the Philosophical Society at Dublin.*
- III. *Part of a Letter from Dr. Archibald Adams, to Dr. Hans Sloane, R. S. Secr. concerning an Apoplectick Person, in whom, from an Obstruction in the Left Ventricle of the Brain, the Nerves on the Opposite side were affected.*
- IV. *A Letter from Mr. Ra. Calep, to Mr. William Cowper, F. R. S. concerning a Woman 62 Years of Age (who is still Living) that lost her Leg and greatest part of her Thigh by a Gangrene.*
- V. *The Manner of making Styrax liquida, alias Rosa Mal-las. Communicated by Mr. James Petiver, F. R. S.*

# PHILOSOPHICAL TRANSACTIONS.

---

*For the Months of March and April, 1708.*

---

## The CONTENTS.

- I. *The Practice of Purging and Vomiting Medicines according to Dr. Cockburn's Solution of his Problem ; with Tables shewing their Doses in particular Ages and Constitutions.*
- II. *Microscopical Observations on the Blood Vessels and Membranes of the Intestines. In a Letter to the Royal Society, from Mr. Anthony Van Leeuwenhoek, F.R.S.*
- III. *An Account of the Manner of Manuring Lands by Shells, as practised in the Counties of Londonderry and Donegall in Ireland. By his Grace the Lord Archbishop of Dublin. Communicated by Samuel Molyneux Esq;*
- IV. *De Linearum Curvarum Longitudine : Authore Jo. Craig.*
- V. *An Account of a New Island raised near Sant-Erini in the Archipelago ; being part of a Letter to Mr. James Petiver, F. R. S. from Dr. W. Sherard, Consul at Smirna, &c.*
- VI. *Experiments of the Luminous Qualities of Amber, Diamonds, and Gum Lac, by Dr. Wall, in a Letter to Dr. Sloane, R. S. Secr.*



# PHILOSOPHICAL TRANSACTIONS.

---

*For the Months of May and June, 1708.*

---

## The CONTENTS.

- I. *An Account of the Repetition of an Experiment, touching Motion given Bodies included in a Glass by the Approach of a Finger near its outside : With other Experiments on the Effluvia of Glafs. By Mr. Fr. Hauksbee, F. R. S.*
- II. *An Account of some Experiments touching the Electricity and Light producible on the Attrition of several Bodies. By Mr. Fr. Hauksbee, F. R. S.*
- III. *An Account of an Experiment of the different Densities of the Air, from the greatest Natural Heat, to the Greatest Natural Cold in this Climate. By Mr. Fr. Hauksbee, F. R. S.*
- IV. *Joannis Keill ex Æde Christi Oxon. A. M. Epistola ad Cl. Virum Gulielmum Cockburn, Medicinæ Doctorem. In quâ Leges Attractionis aliæque Physices Principia traduntur.*
- V. *Microscopical Observations upon the Tongue; in a Letter to the Royal Society from Mr. Anthony Van Leeuwenhoek, F. R. S.*
- VI. *Part of a Letter from the Reverend Mr. W. Derham, F. R. S. to Dr. Hans Sloane, R. S. Secr. concerning the Migration of Birds.*

# PHILOSOPHICAL TRANSACTIONS.

---

*For the Months of July and August, 1708.*

---

## The CONTENTS.

- I. *Microscopical Observations on Red Corral: In a Letter to the Royal Society, from Mr. Anthony Van Leeuwenhoek, F. R. S.*
- II. *Part of a Letter from Mr Ralph Thoresby, F. R. S. to Dr. Hans Sloane, R. S. Secr. concerning some Roman Coins found in Yorkshire.*
- III. *Part of a Letter from Orlando Bridgman Esq; F. R. S. to Capt. Wine; giving an Account of a Storm of Thunder and Lightning that happen'd at Ipswich, July 16, 1708.*
- IV. *A Letter from Mr. Jos. Nelson, concerning the Effects of the abovementioned Storm of Thunder and Lightning at Colchester.*
- V. *Part of a Letter from the Reverend Dr. Arthur Bury, to John Chamberlayne Esq; F. R. S. concerning the Mannuring of Land in Devonshire by Sea-Sand.*
- VI. *A Letter from Mr. Edward Lhuyd, Keeper of the Ashmolean Museum in Oxford, to Dr. R. R. in Yorkshire; giving an Account of a Book, Entitled, OYPE-ΣΙΛΟΙΤΗΣ Helveticus, five Itinera Alpina Tria, &c. Authore Joh. Ja. Scheuchzero, M. D. Lond. 4to. MDCCVIII.*

# PHILOSOPHICAL TRANSACTIONS.

---

*For the Months of September and October, 1708.*

---

## The CONTENTS.

- I. *A Relation of an Idiot at Ostend; with two other Chirurgicall Cases. By Mr. Claud. Amijand, in a Letter to Mr. Wilfon: Communicated by Mr. de la Fage.*
- II. *Jo. Keill ex Æde Christi Oxoniensis, A. M. Epistola ad Clarissimum Virum Edmundum Halleium Geometriæ Professore[m] Savilianum, de Legibus Virium Centripetarum.*
- III. *An Extract of Two Letters from the Missionary Jesuits, concerning the Discovery of the New Philippine-Islands, with a Map of the same.*
- IV. *A Relation of a New Island thrown up near the Island of Santerini; sent to the Marquis of Ferriol, Ambassador Extraordinary of France, at the Ottoman Port. Taken from the Memoirs of the History of Arts and Sciences at Trevoux, for the Month of July, 1708.*

# PHILOSOPHICAL TRANSACTIONS.

*For the Months of November and December, 1708.*

## The CONTENTS.

- I. *A Letter from Mr. Anthony van Leeuwenhoek, F.R.S. containing his Observations upon the White Matter on the Tongues of Feverish Persons, &c.*
- II. *A Letter concerning a Colliery that took Fire, and was blown up near Newcastle, killing 69 Persons, on August 18, 1708. Communicated by the Reverend Dr. Arthur Charlett, Master of University College in Oxford.*
- III. *An Account of the Success of an Attempt to continue several Atmospheres of Air condens'd in the Space of one, for a considerable time. By Mr. Fr. Hauksbee, F. R. S.*
- IV. *An Account of an Experiment touching the Production of Light within a Globe Glass, whose inward Surface is lin'd with Sealing-Wax, upon an Attrition of its outside. By Mr. Fr. Hauksbee, F. R. S.*
- V. *An Account of several Experiments, in relation to the Weight of Common Water, under different Circumstances. By Mr. Fr. Hauksbee, F. R. S.*
- VI. *A Relation of some strange and wonderful Effects of the Scurvey, which happened at Paris in the Year 1699. By Mr. Poupart. Taken from the Memoirs of the History of the Academy of Sciences.*
- VII. *An Extract of a Memoir, concerning the Discovery of a Passage by Land to California; with a Map and Description of that Country. Presented to the Royal Council of Guadalaxara in Mexico, by Francis Maria Picolo. Taken from the Letters of the Missionary Jesuits, printed at Paris.*
- VIII. *De Variis Animalibus Philippenfis, ex MSS. R.P. Geo. Jos. Camelli. Communicavit D. Jac. Petiver, S.R.S.*

# PHILOSOPHICAL TRANSACTIONS.

---

*For the Months of January and February, 1709.*

---

## The CONTENTS.

- I. *A Letter from Mr. Anthony van Leeuwenhoek, F.R.S. concerning the Circulation of the Blood in Fishes, &c.*
- II. *Several Experiments touching the seeming Spontaneous Ascent of Water. By Mr. Fr. Hauksbee, F. R. S.*
- III. *An Account of an Experiment touching the different Densities of Common Water, from the greatest degree of Heat in our Climate, to the Freezing Point, observ'd by a Thermometer. By Mr. Fr. Hauksbee, F. R. S.*
- IV. *An Account of some Experiments, in relation to the Weight of Common Water, under different Circumstances. By Mr. Fr. Hauksbee, F. R. S.*
- V. *Epistola D. Guidonis Grandi, Societatis Regalis Londin. Socii, ad Illust. Comitem D. Laurentium Magalotti, dictæ Societatis Socium, De Natura & Proprietatibus Soni.*
- VI. *Part of a Letter from Mr. Ralph Thoresby, F. R. S. to Dr. Hans Sloane, Reg. Soc. Secr. concerning some Roman Antiquities found in Yorkshire; and a Storm of Thunder, Lightning, and Rain, that happen'd there, Aug. 5, 1708.*

# PHILOSOPHICAL TRANSACTIONS.

*For the Months of March and April, 1709.*

## The CONTENTS.

- I. *Microscopical Observations on the Palates of Oxen, &c.* By Mr. Anthony van Leeuenhoek, F. R. S.
- II. *An Experiment touching the Freezing of Common Water, and Water purg'd of Air.* By Mr. Fr. Hauksbee, F. R. S.
- III. *An Account of an Experiment touching the Freezing of Common Water, Ting'd with a Liquid said to be Extracted from Shell-Lac.* By Mr Fr. Hauksbee, F. R. S.
- IV. *An Experiment touching the Weighing of Bodies of the same Species, but of very unequal Surfaces, in Common Water, being of an equal Weight in Common Air.* By Mr. Fr. Hauksbee, F. R. S.
- V. *A Letter from the Reverend Mr. W. Derham, F. R. S. to Dr. Hans Sloane, R. S. Secr. giving an Account of some Inundations, Monstrous Births, Appearances in the Heavens, and other Observables he received from Ireland. With his Observations on the Eclipse of the Sun, Sept. 3. and of the Moon, Sept. 18. 1708.*
- VI. *A Letter from Mr. Ralph Thoresby, F. R. S. to Dr. Hans Sloane, R. S. Secr. concerning some Roman Antiquities observed in Yorkshire.*
- VII. *Part of a Letter from Wm. Burnet Esq; F. R. S. to Dr. Hans Sloane, R. S. Secr. concerning the Icy Mountains of Switzerland.*
- VIII. *A Brief Narrative of the Shot of Dr. Robert Fielding with a Musket-Bullet, and its strange manner of coming out of his Head, where it had lain near Thirty Years. Written by Himself.*
- IX. *An Account of Books; viz. I. Prælectiones Chymicæ Oxoniæ habite à Johanne Freind, M. D. Edis Christi alumnus. II. An Account of Animal Secretion, the quantity of Blood in the Human Body, and Muscular Motion. By James Keil, M. D.*

# PHILOSOPHICAL TRANSACTIONS.

*For the Months of May and June, 1709.*

---

## The CONTENTS.

- I. **T**ables of the Barometrical Altitudes at Zurich in Switzerland, in the Year 1708. observed by Dr. Joh. Ja. Scheuchzer, F. R. S. and at Upminster in England, observed at the same time by Mr. W. Derham, F. R. S. as also the Rain at Pisa in Italy in 1707. and 1708. observed there by Dr. Michael Angelo Tilli, F. R. S. and at Zurich in 1708. and at Upminster in all that time: With Remarks on the same Tables, as also on the Winds, Heat and Cold, and divers other Matters occurring in those three different Parts of Europe. By Mr. W. Derham, Rector of Upminster.
- II. An Account of an Experiment, shewing that actual Sound is not to be Transmitted through a Vacuum. By Mr. Fr. Hauksbee, F. R. S.
- III. An Account of an Experiment, touching the Propagation of Sound, passing from the Sonorous Body into the common Air, in one Direction only. By Mr. Fr. Hauksbee, F. R. S.
- IV. An Account of an Experiment touching the Propagation of Sound through Water. By Mr. Fr. Hauksbee, F. R. S.
- V. An Explanation of the Figures of a Pagan Temple and unknown Characters at Cannara in the Island of Salsette in the East-Indies. By Mr. Alexander Stuart.

# PHILOSOPHICAL TRANSACTIONS.

---

*For the Months of July and August, 1709.*

---

## The CONTENTS.

- I. **E**xperiments upon Metals, made with the Burning-glass of the Duke of Orleans. By Monsieur Geoffroy, F. R. S.
- II. Observations upon Incisions of the Cornea. By Monsieur Gandolphe, Doctor of Physick at Dunkirk. April, 1709.
- III. An Account of an Experiment, shewing that an Object may become visible through such an Opaque Body as Pitch in the Dark, while it is under the Circumstances of Attrition and a Vacuum. By Mr. Fr. Hauksbee, F. R. S.
- IV. A Letter from Mr. Ralph Thoresby, F. R. S. to Dr. Hans Sloane, R. S. Sec. concerning some Ancient Brass Instruments found in Yorkshire.
- V. A Letter from Mr. Tho. Hearne, M. A. of Oxford, to Mr. Ralph Thoresby, F. R. S. occasioned by some Antiquities lately discover'd near Bramham-Moor in Yorkshire.



# PHILOSOPHICAL TRANSACTIONS.

*For the Months of September and October, 1709.*

## The CONTENTS.

- I. **A** Letter from Mr. James Yonge, F. R. S. to Dr. Hans Sloane, S. R. Secr. concerning a Bunch of Hair voided by Urine.
- II. A Letter from Mr. Ant. Van Leeuwenhoek, F. R. S. containing his Observations upon the Hair mention'd in the foregoing Letter, &c.
- III. A Letter from Mr. James Yonge, F. R. S. to Dr. Hans Sloane, R. S. Secr. concerning several Solid Bodies voided by Urine.
- IV. A Letter from Mr. James Yonge, F. R. S. to Dr. Hans Sloane, R. S. Secr. containing an Account of an Unusual Blackness of the Face; and of several Extra-Uterine Foetus's.
- V. An Extract of an other Letter from Mr. James Yonge, F. R. S. upon the same subjects as the former.
- VI. An Account of three Cases of the Hydrophobia. By R. Mead, M. D. F. R. S.
- VII. An Account of an Experiment, touching an Attempt to produce Light on the Inside of a Globe-Glass lin'd with melted Flowers of Sulphur, as in the Experiments of Sealing-Wax and Pitch. By Mr. Fr. Hauksbee, F. R. S.
- VIII. A Letter from Mr. Antony Van Leeuwenhoek, F. R. S. Containing some Microscopical Observations on the Particles of ChrySTALLIZ'd Sugar, &c. and his manner of Observing the Circulation of the Blood in an Eel.
- IX. Part of a Letter from Mr. B. Sherman to Dr. Hans Sloane, R. S. Secr. concerning the Bones of a dead Foetus, taken out of the Uterus of a Cow; and of a Callus that supplied the Loss of Part of the Os Femoris.

# PHILOSOPHICAL TRANSACTIONS.

---

*For the Months of November and December 1709.*

---

## The CONTENTS.

- I. **T**H E History of the Great Frost in the last Winter 1708 and 1708-9. By the Reverend Mr. W. Derham, Rector of Upminster, F. R. S.
- II. Microscopical Observations upon the Configuration of Diamonds: In a Letter from Mr. Antony Van Leeuwenhoek, F. R. S.
- III. Part of a Letter from the Reverend Mr. W. Derham, F. R. S. to Dr. Hans Sloane, R. S. Sec. Giving an Account of a Child's Crying in the Womb.
- IV. A short Dissertation concerning the Child's Crying in the Womb. By the Reverend Mr. W. Derham, F. R. S.
- V. A Letter from Mr. Antony Van Leeuwenhoek, F. R. S. to John Chamberlayne, Esq; F. R. S. Containing his Observations upon the Edge of Razors, &c.
- VI. A Second Letter from Mr. Antony Van Leeuwenhoek, F. R. S. to John Chamberlayne, Esq; F. R. S. upon the same Subject as the former.